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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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21171	7590	01/23/2006		EXAMINER	
STAAS &	HALSEY	/ LLP	HALEY, JOSEPH R		
	SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			2653		

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/616,035	PARK ET AL.
Office Action Summary	Examiner	Art Unit
	Joseph Haley	2653
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 10 J This action is FINAL. Since this application is in condition for alloware closed in accordance with the practice under the condition of the con	s action is non-final. Ince except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-40 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) _ is/are allowed. 6) ☐ Claim(s) 1-40 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on 10 July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	accepted or b) objected to be drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received to (PCT Rule 17.2(a)).	on Noed in this National Stage
Attachment(s)	_	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

DETAILED ACTION

Information Disclosure Statement

The Information Disclosure Statements filed on 10/17/05, 9/28/05, 12/22/04, and 7/10/03 have been considered by the Examiner. However, the Japan and/or other foreign references, if they have not been printed in English, are considered to the extent that could be determined from the English Abstract and drawings.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 19, 30 and 31 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification nor the drawings show the transferring units disposed in a circular area having the same radius as the disk.

In regard to claim 30, the specification does not teach the pickup transferring units moving sequentially along their respective paths.

In regard to claim 31, the specification does not teach the pickup transferring units moving simultaneously along their respective paths.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 20 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant states in claim 20 "in an outside of an area", perhaps applicant means --outside an area--.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 12-15, 17-28, 34-40 are rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe (US 6407544).

In regard to claim 1, Watanabe teaches a pickup inspecting apparatus inspecting performance of pickups mounted to a disk drive and reading data from a disk, comprising: a disk driving unit rotatably supporting a disk (fig. 1 see also column 6 lines 67 and 68); and a plurality of pickup transferring units disposed around the disk driving unit (fig. 8 elements 23a-d), each holding a corresponding one of the pickups and

transferring the pickups to the disk driving unit to read data recorded on the disk (column 6 lines 63-65), so that the pickups held by corresponding ones of the pickup transferring units are inspected at once.

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In regard to claim 2, Watanabe teaches a determiner transmitting a signal received from each pickup by a time division method (fig. 7 element 37); and a controller controlling each pickup by receiving the signal of the pickup according to the time division method from the determiner (fig. 7 elements 35 a and b).

In regard to claim 3, Watanabe teaches the disk driving unit comprises: a shaft to which the disk is supported; and a spindle motor connected to the shaft to rotate the disk (these are not shown in Watanabe but they are inherent elements).

In regard to claim 4, Watanabe teaches determiner transmitting a signal received from each pickup by a time division method (fig. 7 elements 34 a and b); and a controller controlling each pickup by receiving the signal of the pickup according to the time division method from the determiner (fig. 7 elements 35 a and b).

In regard to claim 12, Watanabe teaches a determiner transmitting a signal received from each pickup by a time division method (fig. 7 element 37); and a controller controlling each pickup by receiving the signal of the pickup according to the time division method from the determiner (fig. 7 elements 35a and b).

In regard to claim 13, Watanabe teaches a pickup inspecting apparatus inspecting performance of a plurality of pickups, comprising: a disk driving unit rotatably supporting a disk; and a plurality of pickup transferring units disposed around the disk driving unit to transfer the pickups to the disk driving unit, wherein the pickups are inspected at once in a programmed inspection (fig. 7 elements 23a and b).

In regard to claim 14, Watanabe teaches the disk driving unit is a single driving unit, and the disk is a single disk (fig. 7 element 25).

In regard to claim 15, Watanabe teaches the number of the pickup transferring units is more than 2 (fig. 8).

In regard to claim 17, Watanabe teaches the pickup transferring units move between a first area corresponding to an inside area of the disk and a second area corresponding to an outside area of the disk (fig. 1).

In regard to claim 18, Watanabe teaches the pickup transferring units move to pass through a circular line having the same radius as the disk (column 6 lines 67 and 68).

In regard to claim 19, Watanabe teaches all of the pickup transferring units are disposed in a circular area having the same radius of the disk (fig. 8 elements 23 a-d).

In regard to claim 20, Watanabe teaches all of the pickup transferring units are disposed around the disk driving unit in an outside of an area corresponding to the disk (fig. 7 elements 23a and b).

In regard to claim 21, Watanabe teaches a pickup inspecting apparatus inspecting performance of a plurality of pickups, further comprising: a base member; a disk driving unit mounted on the base member to rotatably support a disk; a plurality of pickup transferring units mounted on the base member and disposed around the disk driving unit (fig. 7 elements 23a and b); and a controller controlling the pick transferring

units to transfer the pickups to the disk driving unit and controlling the pickups to read data from the disk to be inspected at once (fig. 7 elements 35a and b).

In regard to claims 22, 24, 36, 38 and 40 see claim 14 rejection above.

In regard to claim 23, Watanabe teaches a pickup inspecting apparatus inspecting performance of a pickup used in a disk drive, comprising; a base member; a disk driving unit mounted on the base member and having a spindle motor and a shaft rotatably coupled to the spindle motor; and a plurality of pickup transferring units mounted on the base member and disposed around the disk driving unit to be spacedapart from each other in different radial directions of the shaft (fig. 8 elements 23a-d).

In regard to claim 25, Watanabe teaches the pickup transferring units are disposed within a circular area around the shaft of the disk driving unit (fig. 8 elements 23a-d).

In regard to claim 26, Watanabe teaches the pickup transferring units are disposed in a circular direction of the shaft of the disk driving unit (fig. 8 elements 23ad).

In regard to claim 27, see claim 20 rejection above.

In regard to claim 28, see claim 17 rejection above.

In regard to claim 34, Watanabe teaches the pickup transferring units are disposed opposite to each other with respect to the shaft of the disk driving unit (fig. 7) elements 23a and b).

In regard to claim 35, Watanabe teaches rotatably supporting a disk on a disk driving unit; and disposing a plurality of pickup transferring units around the disk driving

unit; and transferring a plurality of pickups disposed in corresponding ones of the pickup transferring units to the disk driving unit; and inspecting all of the pickups at once (fig. 7 elements 23a and b).

In regard to claim 37, see claim 35 rejection above.

In regard to claim 39, see claim 21 rejection above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe in view of the applicant's admitted prior art.

In regard to claim 5, Watanabe teaches a pickup holder holding the pickup, however does not teach an angle adjusting part connected to the pickup holder to adjust an angle of the pickup holder with respect to the disk driving unit; and a feed motor connected to the angle adjusting part to transfer the pickup held by the pickup holder to the disk driving unit.

The applicant's admitted prior art teaches an angle adjusting part connected to the pickup holder to adjust an angle of the pickup holder with respect to the disk driving unit (fig. 1 element 125); and a feed motor connected to the angle adjusting part to transfer the pickup held by the pickup holder to the disk driving unit (fig. 1 element 125 a and b).

The two are analogous art because they both deal with the same field on invention of testing plural recording heads.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the apparatus of Watanabe with the skew motors of the applicant's prior art. The rationale is as follows: At the time of invention it would have been obvious to provide the apparatus of Watanabe with the skew motors of the applicant's prior art because it would allow for the skew angle of the head to be changed.

In regard to claim 6, Watanabe teaches a determiner transmitting a signal received from each pickup by a time division method (fig. 7 element 37); and a controller controlling each pickup by receiving the signal of the pickup according to the time division method from the determiner (fig. 7 elements 35 a and b).

In regard to claim 7, Watanabe teaches base member on which the disk driving unit and the pickup transferring units are seated, wherein the spindle motor is seated on the base member, the shaft is connected to the spindle motor, and the disk is coupled to the shaft so as to rotate together with the shaft (these are all inherent members).

In regard to claim 8, Watanabe teaches a determiner transmitting a signal received from each pickup by a time division method (fig. 7 element 37); and a controller controlling each pickup by receiving the signal of the pickup according to the time division method from the determiner (fig. 7elements 35 a and b).

Claims 9-11, 16 and 29, 32 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe in view of the applicants prior art further considered with Official Notice.

In regard to claim 9 Watanabe and the prior art teach all the elements of claim 9 except a guide block combined with the angle adjusting part under the angle adjusting part; and a guide rail provided on the base member to guide the guide block, wherein the feed motor is connected to the guide block and moves the guide block along the guide rail.

The Examiner takes Official Notice that using guild rails is well known in the art.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the apparatus of Watanabe and the prior art with a guide rail. The rationale is as follows: At the time of invention it would have been obvious to provide the apparatus of Watanabe and the prior art with a guide rail because it is a well known way to reliably guide a pickup in the radial direction of disc.

In regard to claim 10, Watanabe teaches a determiner transmitting a signal received from each pickup by a time division method (fig. 7 element 37); and a controller controlling each pickup by receiving the signal of the pickup according to the time division method from the determiner (fig. 7 element 35a and b).

In regard to claim 11, Watanabe teaches the number of the pickup transferring units is 4 and arranged around the disk driving unit (fig. 8).

In regard to claim 16, Watanabe and the prior art teach all the elements of claim 16 except the pickup transferring units move in a radial direction of a center of the disk by a distance greater than the radius.

The examiner takes Official Notice that it is well known in the art to move a pickup a distance greater than the radius of the disc.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the apparatus of Watanabe and the prior art with unit that moves the pickup in an area larger than the radius of the disc. The rationale is as follows: At the time of invention it would have been obvious to provide the apparatus of Watanabe and the prior art with unit that moves the pickup in an area larger than the radius of the disc because it would make loading of the disc easier.

In regard to claim 29, see claim 16 rejection above.

In regard to claim 32, Watanabe teaches the pickup transferring units move in a radial direction of the shaft of the disk driving unit (column 6 lines 63-65).

In regard to claim 33, Watanabe teaches the first position and second position are disposed in a radial direction of the shaft of the disk driving unit (column 6 lines 63-65).

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Haley whose telephone number is 571-272-

0574. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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TAN DINH PRIMARY **EXAMINER**

1/10/06